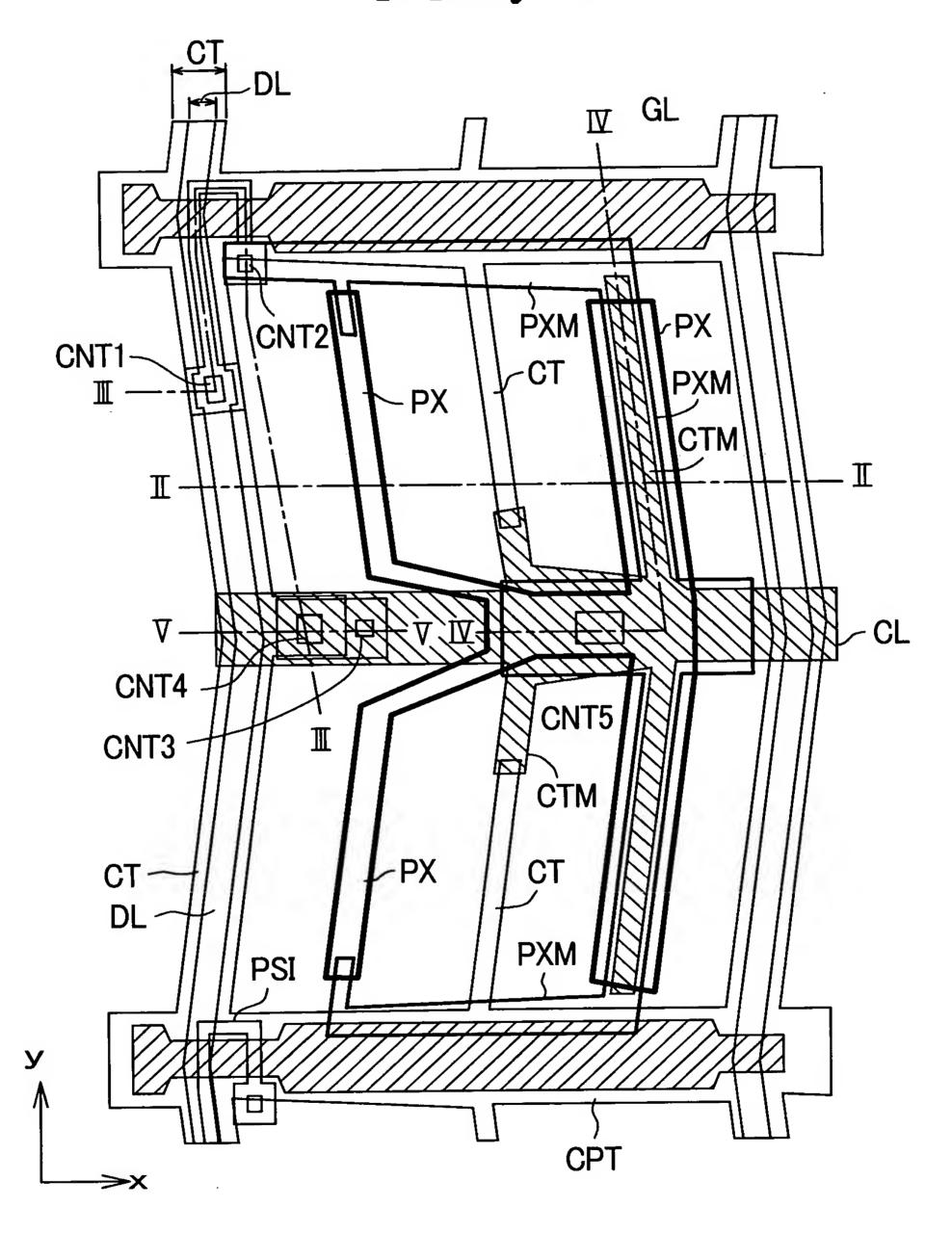
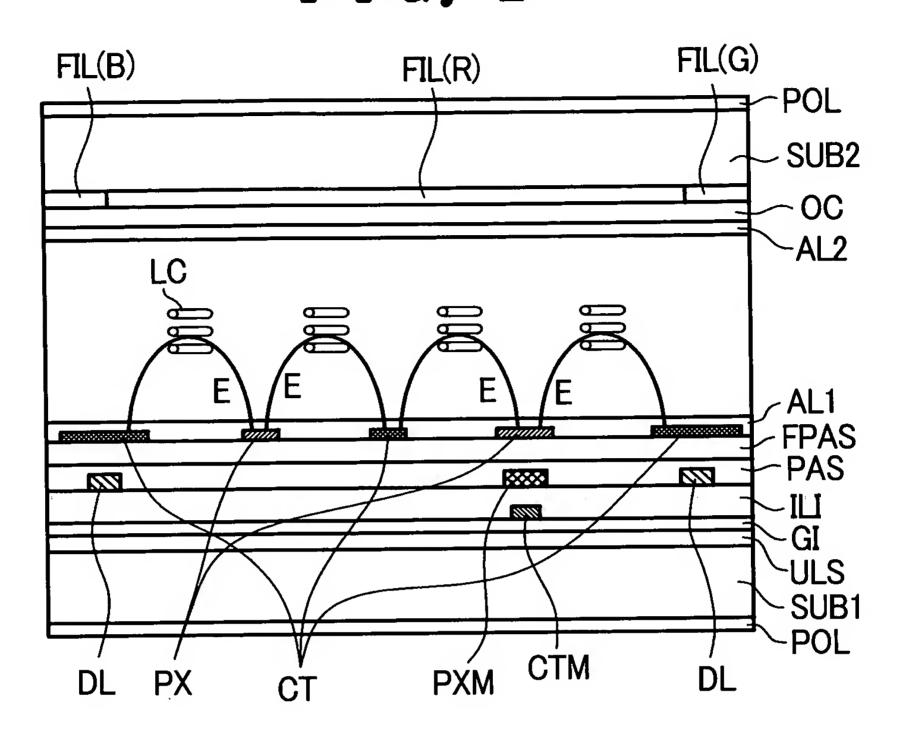
F I G. 1

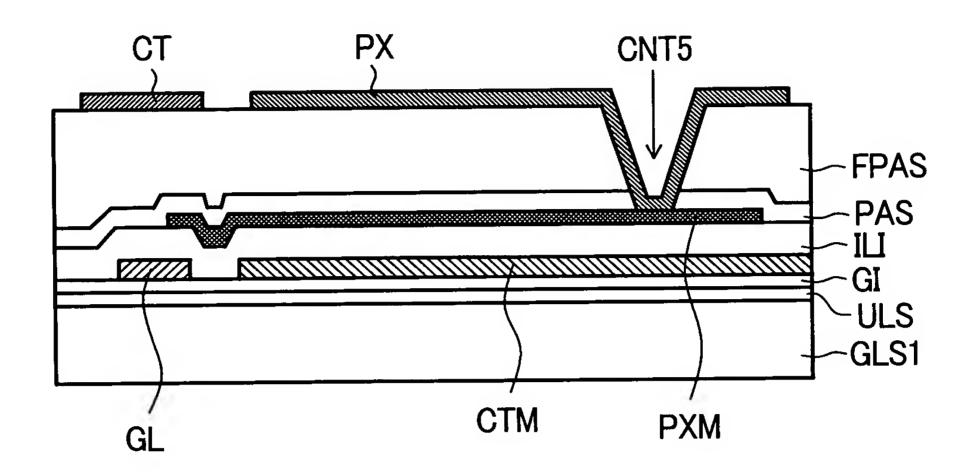


F I G. 2

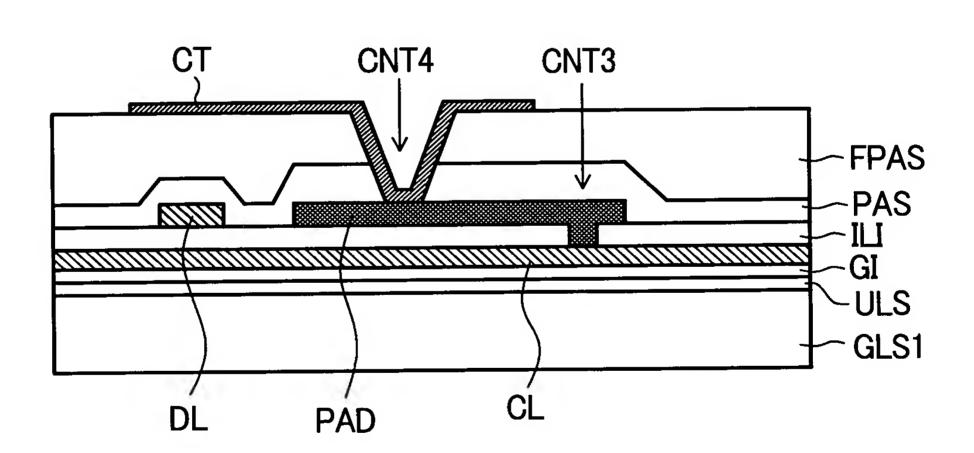


F I G. 3 CNT4 CT GL CT DL PXM **FPAS PAD** PAS *Anna* - ILI -GI - ULS GLS1 CL CNT1 CNT2 PSI(p) PSI(n) PSI

FIG. 4



F I G. 5



F I G. 6

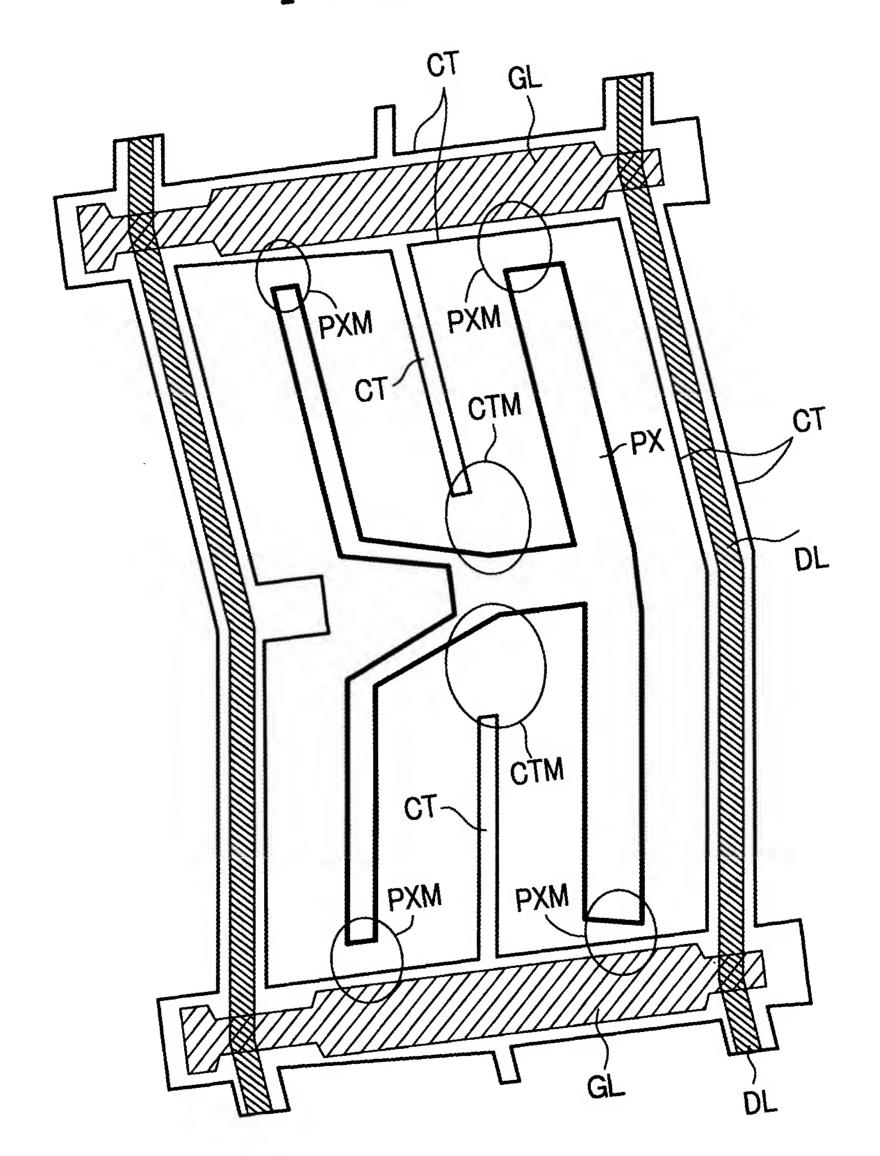
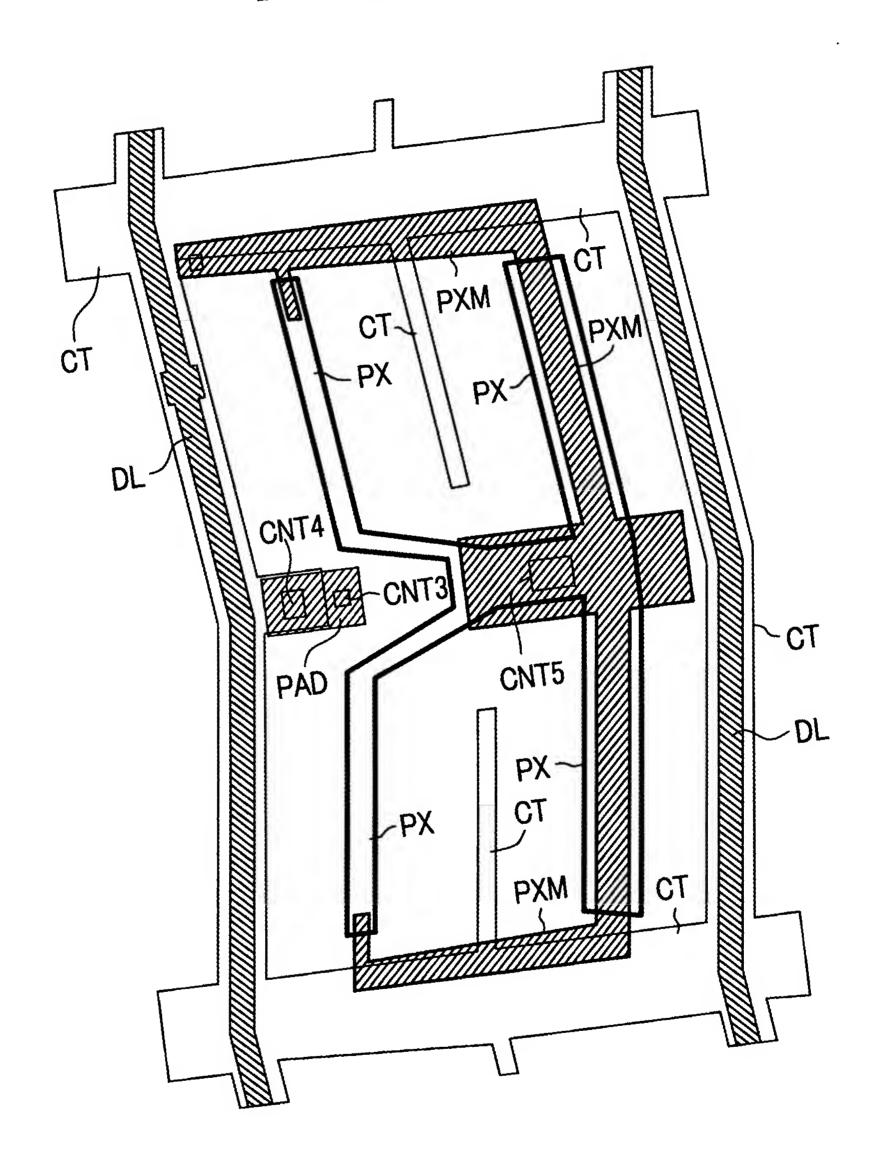
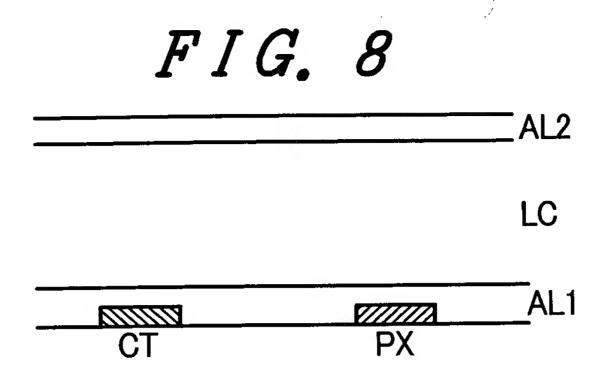


FIG. 7





AL2
_C
AL1 Insulating Layer

FIG. 10

$$H_2N$$
— X — X — X — X — X

FIG. 11A FIG. 11B FIG. 11C

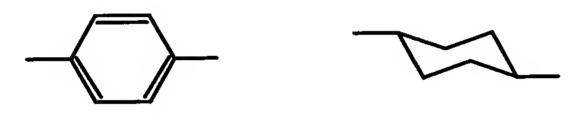
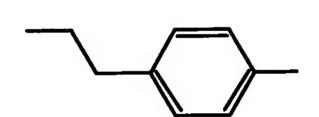


FIG. 11D



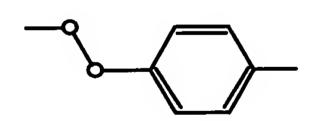


FIG. 11F

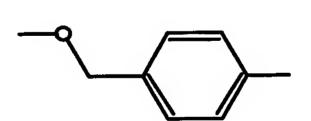
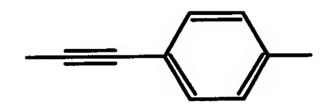


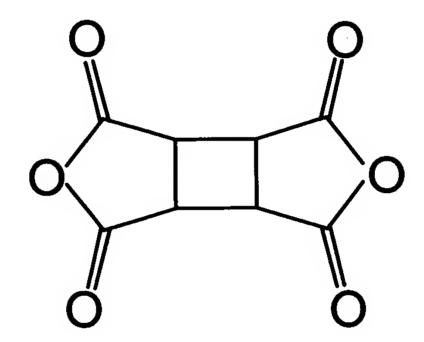
FIG. 11G



F I G. 12A

$$H_2N$$
— NH_2

F I G. 12B

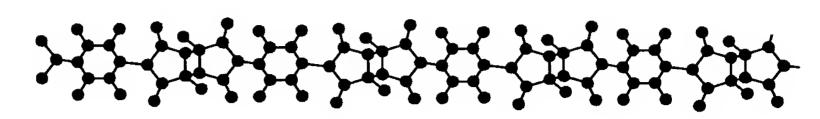


F I G. 13

$$-N$$
 N
 N

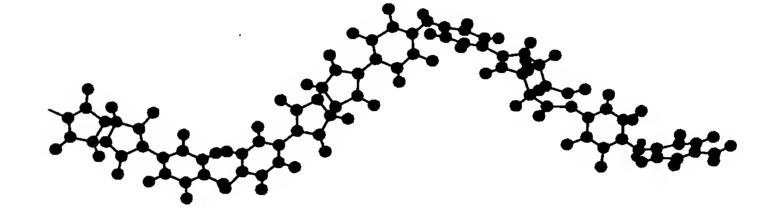
F I G. 14A

Orientation film A



F I G. 14B

Orientation film B



F I G. 14C

Orientation film C

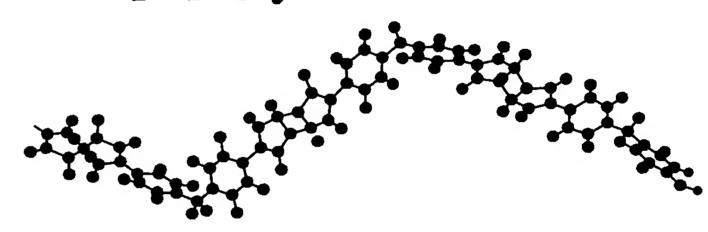


FIG. 15

$$-N$$
 N
 N
 N

F I G. 16A

$$-N$$
 N
 N

F I G. 16B

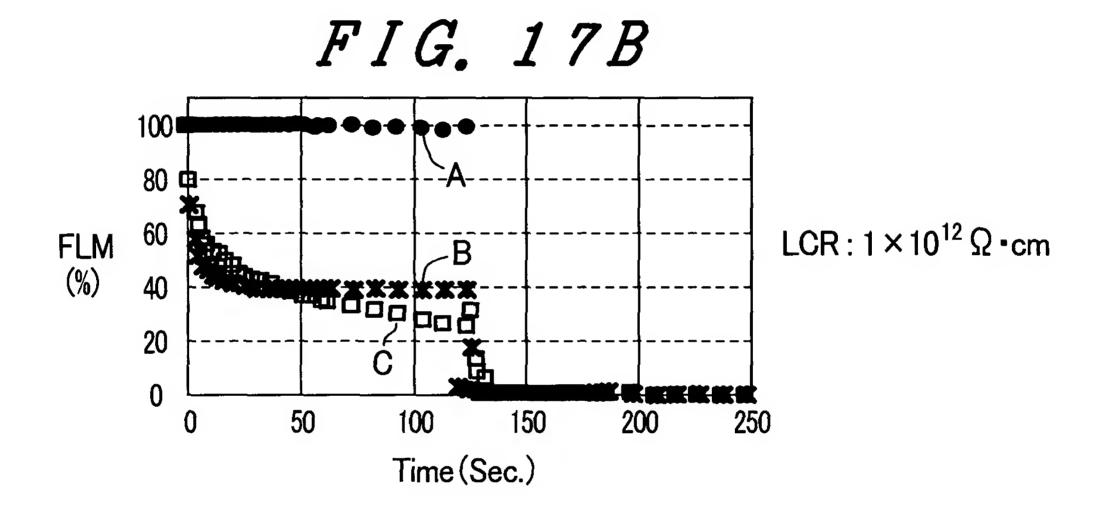
$$-N$$
 N
 N

F I G. 18A

FIG. 18B

$$-N$$
 N
 N
 N
 N

F I G. 17A LCR: $1 \times 10^{13} \,\Omega$ cm FLM (%) Time (Sec.)



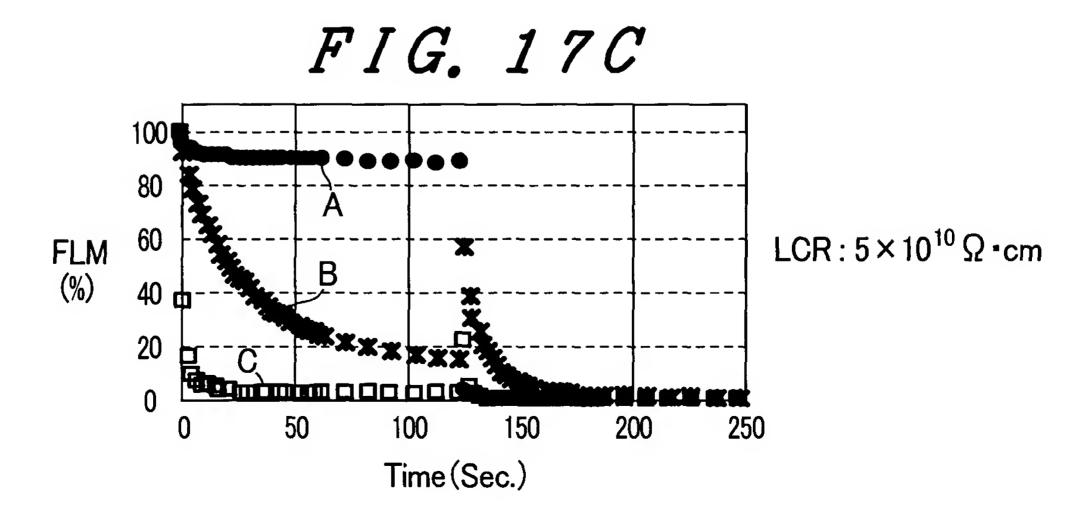
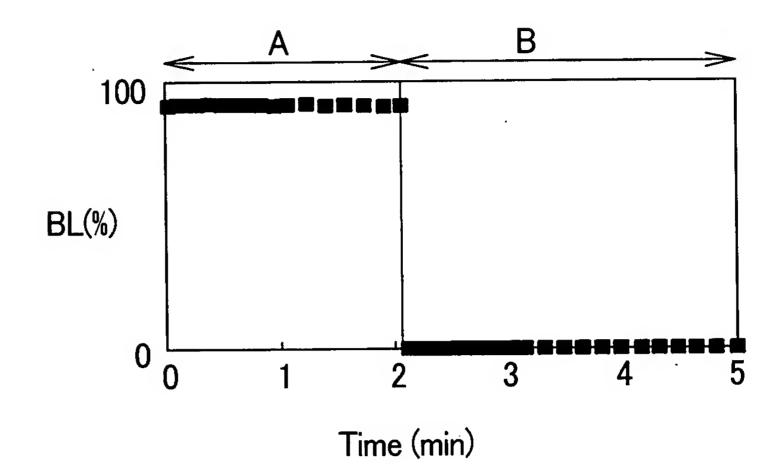
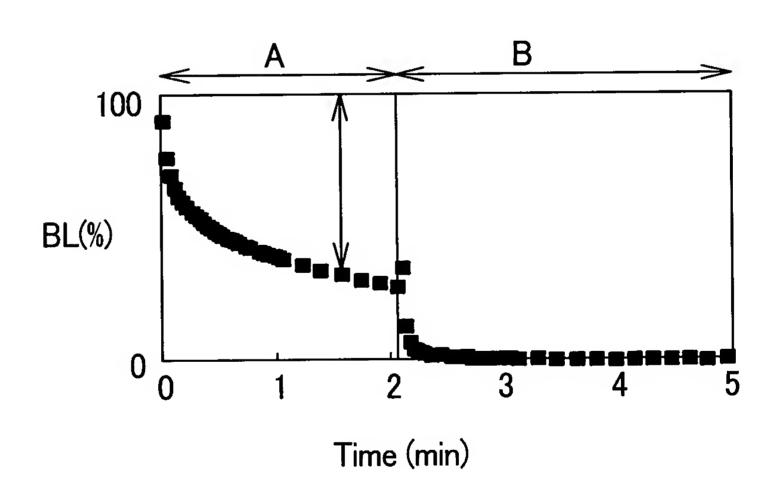


FIG. 19A



F I G. 19B



F I G. 20A

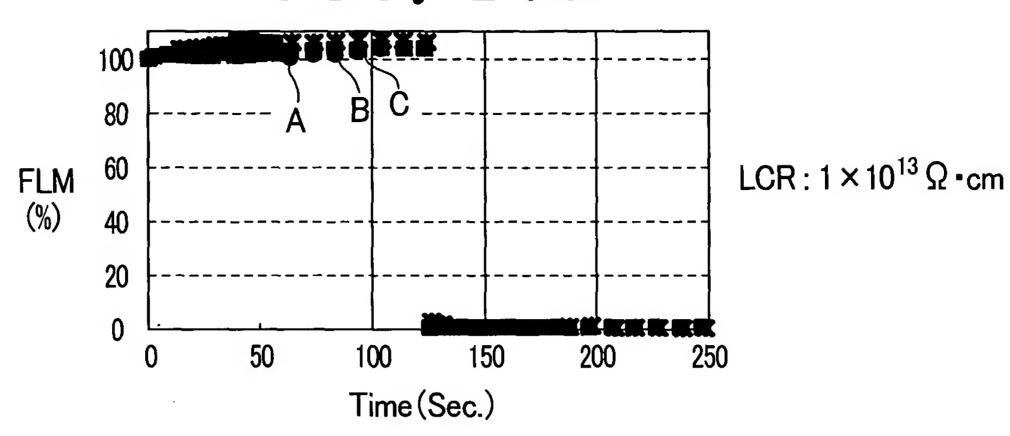


FIG. 20B

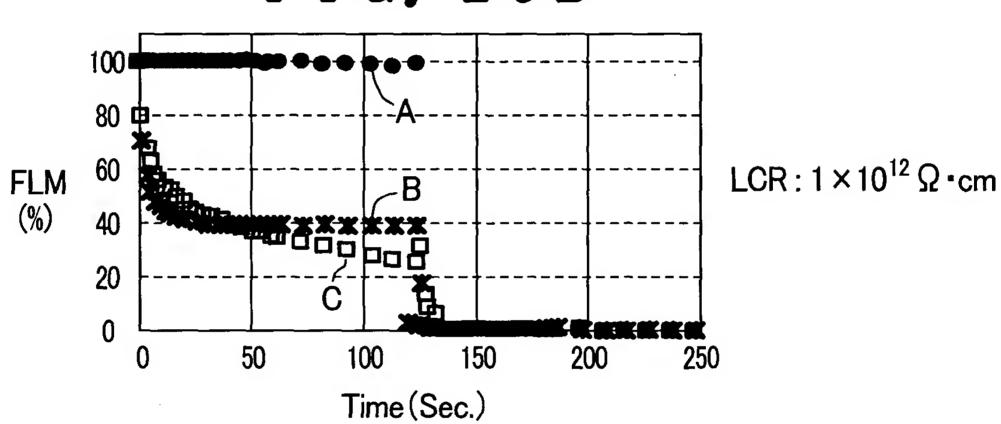


FIG. 20C

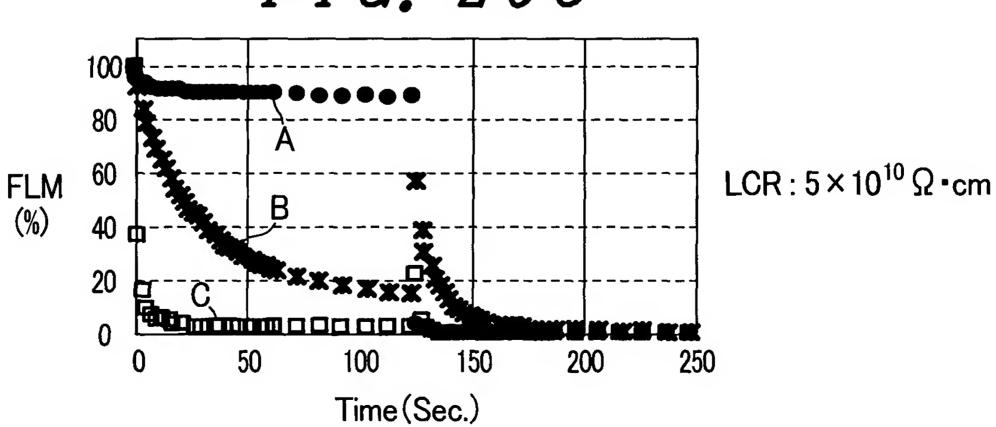


FIG. 21A

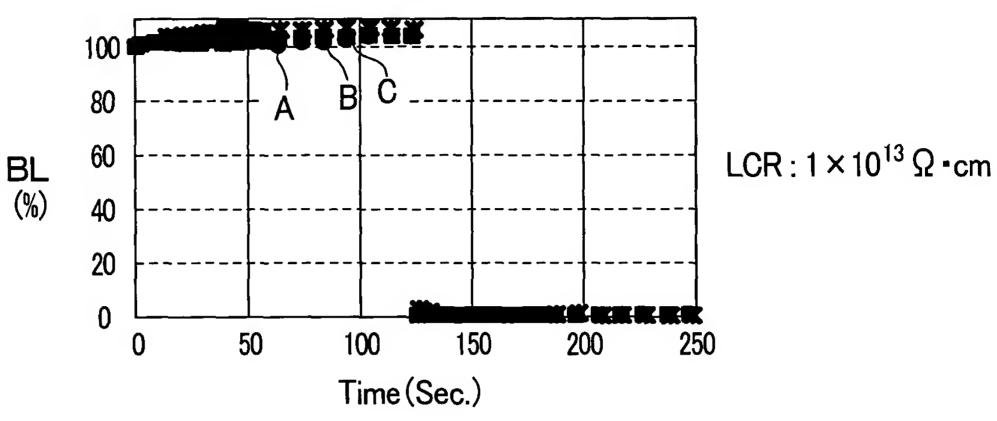


FIG. 21B

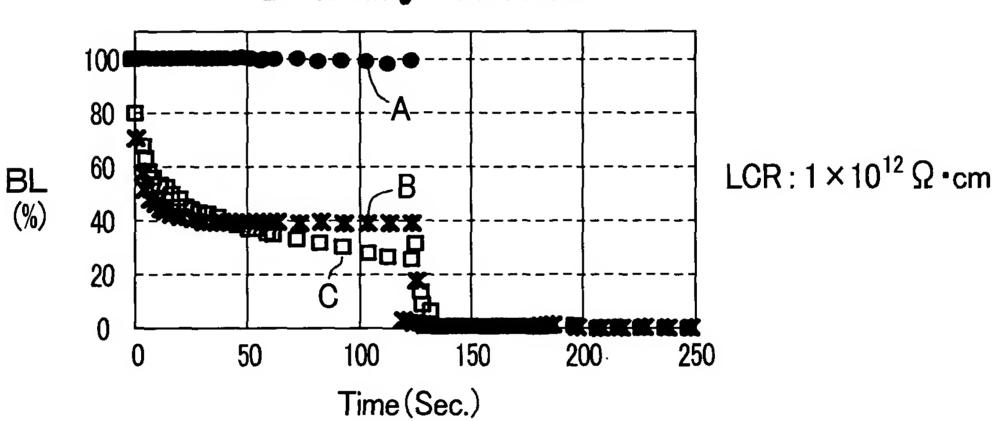
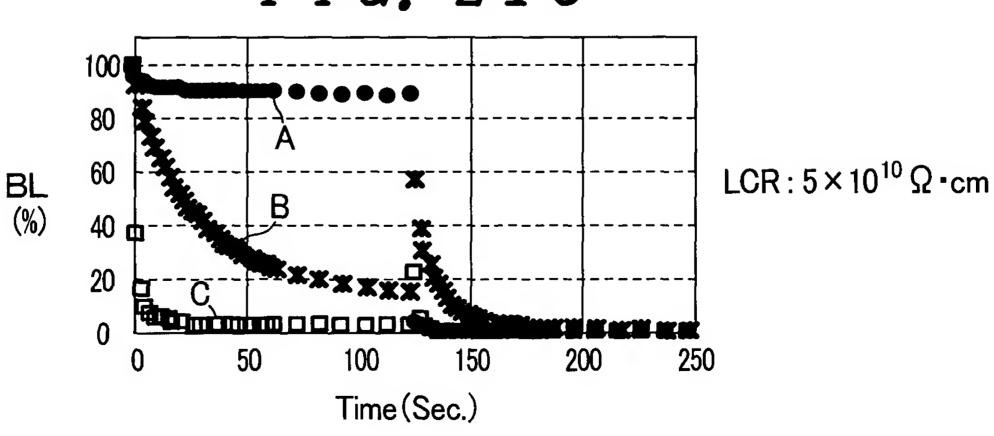


FIG. 21C



F I G. 22A

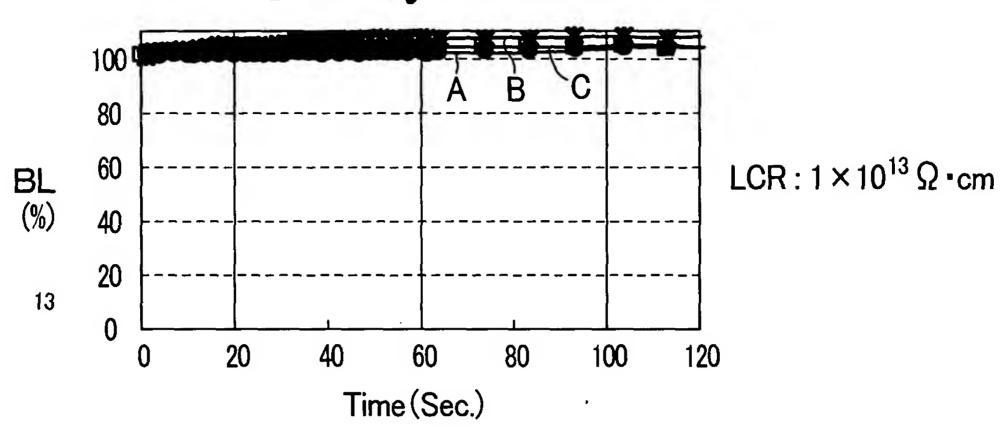


FIG. 22B

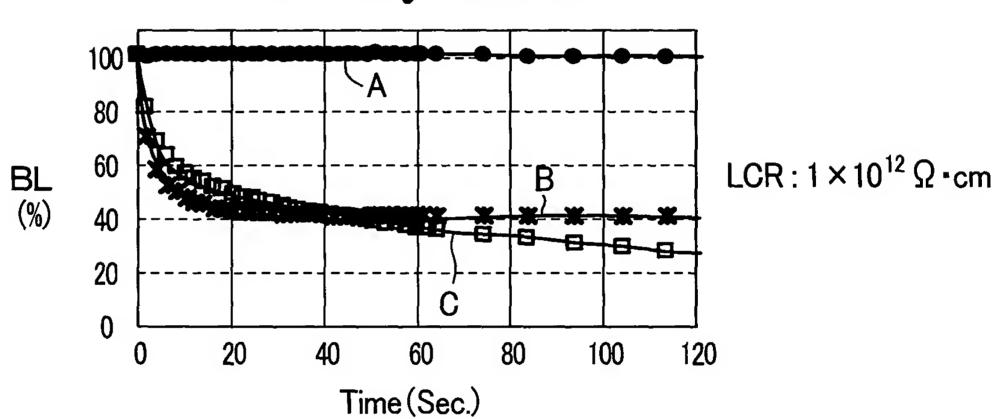
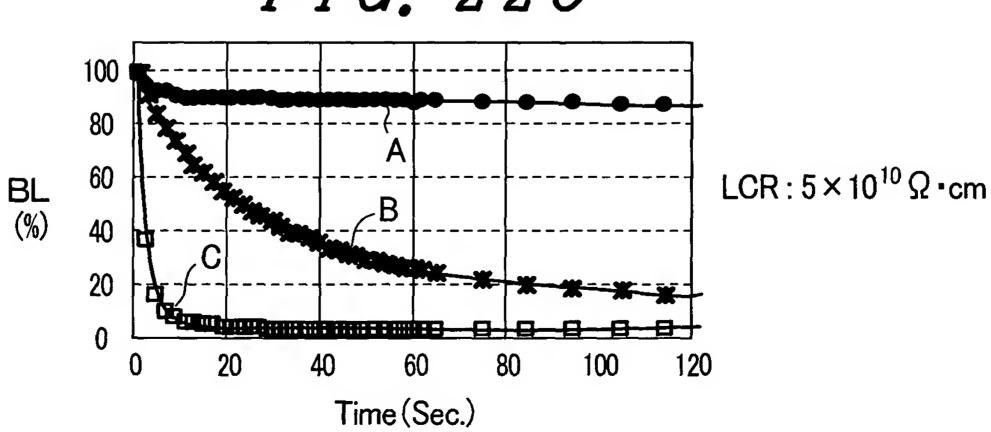


FIG. 22C



F I G. 23A LCR: $1 \times 10^{13} \,\Omega$ •cm FLM (%) Time (Sec.)

